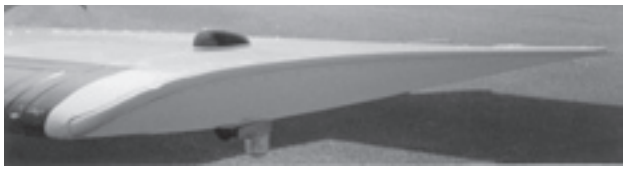
Stobe Systems

The following are strobe system recommendations. The basic model/part numbers are given. However, in some cases, the aircraft voltage and mounting location of the light are needed to specify the exact model/part number needed.

Raytheon/Beech Aircraft

Early model twin engine-1966
Due to the slanted wing-tip, require custom fabricated brackets for mounting the strobe lights.

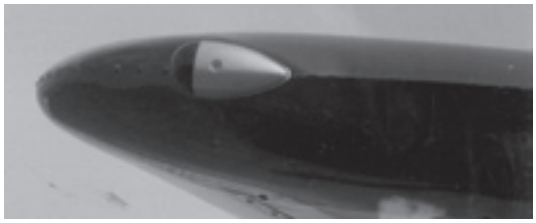


To convert to strobes, the following is recommended:

	Qty.	Model	Description
P/N 01-0770028-05	1	HDACF	Power supply
P/N 01-0770058-03	2	A625	Wing-tip strobe light assembly
P/N 01-0750206-00	1	HD60	Installation package

REF: All Barons (95-55, A55, B55, C55, D55) & all Travel Airs. 1957 thru 1969

Early model single engine-1966
Excluding any modified wing-tip, use position lights at the wing-tip extremity.



To convert to strobes, the following is recommended:

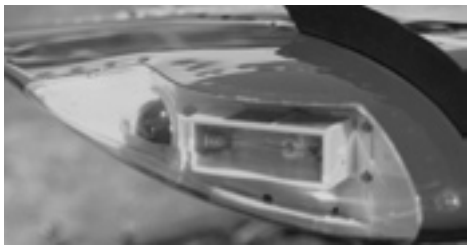
	Qty.	Model	Description
P/N 01-0770028-05	1	HDACF	Power supply
P/N 01-0770054-00	1	A650PG14	Wing-tip light
P/N 01-0770054-02	1	A650PR14	Wing-tip light
P/N 01-0750206-00	1	HD60	Installation package

Single engine 1967-1973
Use position lights installed under clear fairings at the wing-tips most forward position.

To convert to strobes, the following is recommended:

	Qty.	Model	Description
P/N 01-0770028-05	1	HDACF	Power supply
P/N 01-0770058-03	2	A625	Wing-tip strobe light
P/N 01-0770024-00	1	A500AV14	Tail strobe/position light (lens may be removed to reduce heat build-up)
P/N 01-0770024-01	1	A500AV28	Tail strobe/position light (lens may be removed to reduce heat build-up)
P/N 01-0750205-00	1	HDT390	Installation package

Raytheon/Beech Aircraft



Single engine 1974 and Later
Use a commonality wing-tip, that enlarged the clear fairing by approximately six inches.

To convert to Whelen strobes the following is recommended:

	Qty.	Model	Description
P/N 01-0770028-05	1	HDACF	Power supply
P/N 01-0790028-03	2	D900283	Wing-tip strobe light
P/N 01-0770024-00	1	A500AV14	Tail strobe/position light
P/N 01-0770024-01	1	A500AV28	Tail strobe/position light
P/N 01-0750205-00	1	HDT390	Installation package

Baron, Rudder Mount Oscillating Beacon replacement
To convert the existing Rudder Mount Oscillating Beacon to a solid state Halogen Flasher, the following is recommended:

	Qty.	Model	Description
P/N 01-0790044-57	1	9004457	Flashing anti-collision light assembly (red)

The Oscillating Beacon first appeared in 1970 on the then new E55, until 1982. All Model 58's used it from 1970 thru 2000.

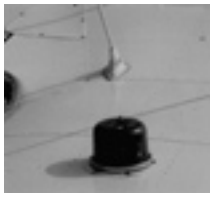
Duke, Oscillating Beacon replacement
To convert the existing Oscillating Beacon to a solid state Halogen Flasher, the following is recommended:

	Qty.	Model	Description
P/N 01-0790044-01	1	9004401	Flashing anti-collision light assembly (red), 5-hole mount
P/N 01-0790044-17	1	9004417	Flashing anti-collision light assembly (red), 8-hole mount

Raytheon/Beech Aircraft

Rotating Beacon Replacement
To convert the existing Rotating Beacon to a strobe, the following is recommended:

	Qty.	Model	Description
P/N 01-0770029-29	1	HRCFAR	Standard assembly, red lens
P/N 01-0770029-30	1	HRCFAW	Standard assembly, white lens
P/N 01-0770029-31	1	HRCFAS	Standard assembly, split red/white lens
P/N 19-130074-009	1	A440	Mounting adapter (required for new fuselage mounting)



Round rotating beacon was used on the vertical fin of all Barons from 1961-1969. Models using this light are 95-55 (1961), A55 (1962-63), B55 (1964-1982), C55 (1966-1967), D55 (1968-1969).

Note: The B55 Baron continued to use this beacon until production stopped in 1982.

Cessna Aircraft

Note: Whelen does not have specific kits set up. However, the following are strobe system recommendations.

Wing-tip strobes for early model single engine through 1961
Excluding any modified wing-tip, use position lights at the wing-tip extremity.

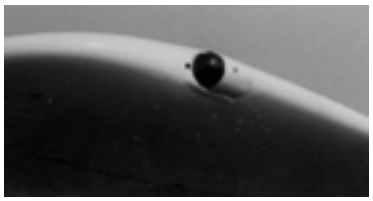
To convert to strobes, the following is recommended:

	Qty.	Model	Description
P/N 01-0770028-05	1	HDACF	Power supply
P/N 01-0770054-00	1	A650PG14	Wing-tip light
P/N 01-0770054-02	1	A650PR14	Wing-tip light
P/N 01-0750206-00	1	HD60	Installation package

Wing-tip strobes for single engine 1962-1969
Requires modification to the factory wing-tip to accommodate the light assemblies.

To convert to strobes, the following is recommended:

	Qty.	Model	Description
P/N 01-0770028-05	1	HDACF	Power supply
P/N 01-0770054-00	1	A650PG14	Wing-tip light
P/N 01-0770054-02	1	A650PR14	Wing-tip light
P/N 01-0750206-00	1	HD60	Installation package



Cessna Aircraft

Wing-tip strobes for single engine 1972
Later excluding any modified wing-tip, spare wires were installed at the factory from a switch position on the instrument panel to the farthest rib in each wing-tip. This allows mounting of the power supplies adjacent to the strobe light, which reduces installation time significantly. Wing-tip strobes were also an option in the early 70's. We estimate that 40%-50% had factory installed systems.

Replacement parts for aircraft with factory installed systems:

	Qty.	Model	Description
P/N 01-0770006-09	2	A490TCCF	Wing-tip strobe power supply
P/N 02-0250274-00	2	A427	Wing-tip strobe tube
P/N 68-4290001-30	2	A428	Wing-tip strobe lens

Recommended parts for aircraft without factory installed systems:

	Qty.	Model	Description
P/N 01-0770006-09	2	A490TCCF	Wing-tip strobe power supply
P/N 02-0250276-00	2	A610	Wing-tip strobe tube assembly
P/N 68-2290005-30	2	A612	Wing-tip strobe lens
P/N 01-0750216-00	1	HT	Installation package

Note: A small percentage of 1972 and later aircraft used the 1962-1969 wing-tip.

Rotating Beacon replacement for early model single engine through 1966
The first form of anti-collision light for aircraft was a rotating beacon. These beacons were installed from the late 50's through 1966.

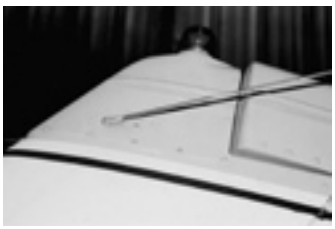
To convert the rotating beacon to a strobe, the following is recommended:

	Qty.	Model	Description
P/N 01-0770029-29	1	HRCFAR	Standard assembly, red lens
P/N 01-0770029-30	1	HRCFAW	Standard assembly, white lens
P/N 01-0770029-31	1	HRCFAS	Standard assembly, split
P/N 19-130074-009	1	A440	Red/white lens mounting adapter (required fuselage mounting)

Cessna Aircraft

Quartz Halogen Flasher replacement for single engine vertical fin, 1967 and later

In 1967 Cessna changed from a Rotating Beacon to a Quartz Halogen Flasher Beacon. This has a 150-watt 28V quartz halogen lamp, or a 125-watt 14V quartz halogen lamp, operated from a solid state electronic module.



To convert to a strobe, the following is recommended:

	Qty.	Model	Description
P/N 01-0770019-18	1	A470AR	Strobe light assembly, red
P/N 01-0770019-19	1	A470AW	Strobe light assembly, white
P/N 01-0770019-20	1	A470AS	Strobe light assembly, split red/white
P/N 01-0770062-03	1	A490ATSC	Power supply assembly
P/N 01-730068-000	1	H102	Mounting adapter
P/N 01-0750218-00	1	HT10	Installation package

Cessna 300A, B, C & D Twin Engines

The system for these airplanes requires fabricated brackets for affixing the power supplies, and for attaching the strobe to a new position light bracket.

To convert to strobes, the following is recommended:

	Qty.	Model	Description
P/N 01-0770006-08	3	A490TCF	Power supply
P/N 01-0770058-03	2	A625	Wing-tip strobe light
P/N 01-0770024-01	1	A500AV	Tail strobe/position light
P/N 01-0750216-00	1	HT	Installation package

The remaining Cessna 300-400 Series Twin Engines

The system for these airplanes requires the same hardware as above, however, they had factory installed Grimes assemblies from approximately 1969 and later. To replace the existing system, all parts must be replaced and some wiring must be changed along with custom fabricated brackets.

Rotating Beacon replacement.

To convert the existing rotating beacon to a strobe, the following is recommended:

	Qty.	Model	Description
P/N 01-0770029-29	1	HRCFAR	Standard assembly, red lens
P/N 01-0770029-30	1	HRCFAW	Standard assembly, white lens
P/N 01-0770029-31	1	HRCFAS	Standard assembly, split red/white lens
P/N 19-130074-009	1	A440	Mounting adapter (required for new fuselage mounting)

Cessna Aircraft

Cessna Citation Series
Whelen has an STC'd system to convert factory installed Grimes wing-tip strobes. The initial STC ST22BO was for Citation 550, S550 & 560, serial number 128 thru 256. The following is recommended:

P/N 01-0716164-03—STC (# ST22BO) includes:

	Qty.	Model	Description
P/N 01-0790101-04	2	9010104	Power supply
P/N 01-0790159-05	1	9015905	Strobe light assembly
P/N 01-0790159-06	1	9015906	Strobe light assembly

The second system, STC ST0010BO covers serial number 257 and later, and any aircraft that installed Cessna service bulletin SB560-33-08 from serial number 0001 thru 0256.

P/N 01-0716164-05—STC (#ST0010BO) includes:

	Qty.	Model	Description
P/N 01-0790101-04	2	9010104	Power supply
P/N 01-0790206-03	1	9020603	Strobe light assembly
P/N 01-0790206-04	1	9020604	Strobe light assembly

Oscillating Beacon replacement
To convert the existing rudder mount oscillating beacon to a solid state quartz halogen flasher, the following is recommended:

	Qty.	Model	Description
P/N 01-0790044-33	1	9004433	Flashing anti-collision light assembly

Mooney Aircraft

Early Model Flat Wing
Exterior position light mounting.

To convert to strobes, the following is recommended:

	Qty.	Model	Description
P/N 01-0770028-05	1	HDACF	Power supply
P/N 01-0770054-00	1	A650PG14	Wing-tip strobe/position light
P/N 01-0770054-02	1	A650PR14	Wing-tip strobe/position light
P/N 01-0750206-00	1	HD60	Installation package

Mooney Aircraft

Enclosed Wing-tip (New Installation)
To convert to strobes, the following is recommended:

	Qty.	Model	Description
P/N 01-0770028-05	1	HDACF	Power supply
P/N 01-0770054-00	1	A650PG14	Wing-tip strobe/ position light
P/N 01-0770054-02	1	A650PR14	Wing-tip strobe/ position light
P/N 01-0770024-00	1	A500AV14	Tail strobe/position light assembly, 14V
P/N 01-0770024-01	1	A500AV28	Tail strobe/position light assembly, 28V
P/N 01-0750205-00	1	HDT390	Installation package

Enclosed Wing-tip (Hoskins/SDI Replacement)
Slight modification required to convert to strobes, the following is recommended:

	Qty.	Model	Description
P/N 01-0770028-05	3	A490TCF	Power supply
P/N 01-0770058-03	2	A625	Wing-tip strobe light assembly
P/N 01-0750216-00	1	HT	Installation package
P/N 01-0770024-00	1	A500AV14	Tail strobe/position light assembly, 14V
P/N 01-0770024-01	1	A500AV28	Tail strobe/position light assembly, 28V

Rotating Beacon Replacement
To convert the existing rotating beacon to a strobe, the following is recommended:

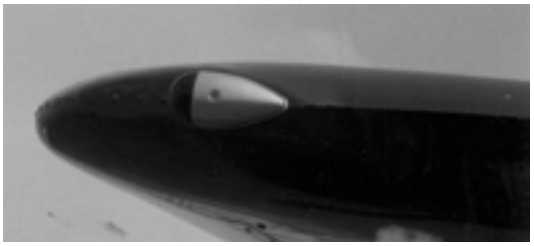
	Qty.	Model	Description
P/N 01-0770029-29	1	HRCFAR	Standard assembly, red lens
P/N 01-0770029-30	1	HRCFAW	Standard assembly, white lens
P/N 01-0770029-31	1	HRCFAS	Standard assembly, split red/white lens
P/N 19-130074-009	1	A440	Mounting adapter (required for new fuselage mounting)

Piper Aircraft

Single Engines and Piper Aztec
The same wing-tip strobe system can be used on most Piper aircraft models.

To convert to strobes, the following is recommended:

	Qty.	Model	Description
P/N 01-0770028-05	1	HDACF	Power supply
P/N 01-0770054-00	1	A650PG14	Wing-tip strobe/position light 14V
P/N 01-0770054-02	1	A650PR14	Wing-tip strobe/position light 14V
P/N 01-0750206-00	1	HD60	Installation package



Piper Navajo
System is as follows:

	Qty.	Model	Description
P/N 01-0770028-05	1	HDACF	Power supply
P/N 01-0770054-01	1	A650PG28	Wing-tip strobe/position light, 28V
P/N 01-0770054-03	1	A650PR28	Wing-tip strobe/position light, 28V
P/N 01-0770024-03	1	A500AH28	Tail position/strobe light assembly, 28V
P/N 01-0750205-00	1	HDT390	Installation package

Piper Cheyenne I, II, & IIXL
Factory equipped with Whelen strobes.

Rotating Beacon Replacement
To convert the existing rotating beacon to a strobe, the following is recommended:

	Qty.	Model	Description
P/N 01-0770029-29	1	HRCFAR	Standard assembly, red lens
P/N 01-0770029-30	1	HRCFAW	Standard, white lens
P/N 01-0770029-31	1	HRCFAS	Standard assembly, split red/white lens
P/N 19-130074-009	1	A440	Mounting adapter (required for new fuselage mounting)

Homebuilts & Kit Aircrafts

Aircraft with Standard Wing-tips
This is the most widely used system on the market. It provides all of the necessary components for anti-collision and position lights, without the need for a remote taillight. The power supply is mounted in the fuselage, and the shielded cable is run to the lights.

The following is recommended:

	Qty.	Model	Description
P/N 01-0770028-05	1	HDACF	Power supply
P/N 01-0790006-00	1	A600PG14	Wing-tip strobe/ position/tail light, 14V
P/N 01-0790006-02	1	A600PR14	Wing-tip strobe/ position/tail light, 14V
P/N 01-0750206-00	1	HD60	Installation package

Aircraft with Enclosed Wing-tip Fairings
If the position and strobe lights are to be mounted under a clear fairing, the need for a third tail strobe is required.

To convert to strobes, the following is recommended:

	Qty.	Model	Description
P/N 01-0770028-05	1	HDACF	Power supply
P/N 01-0770054-00	1	A650PG14	Wing-tip strobe/ position light, 14V
P/N 01-0770054-02	1	A650PR14	Wing-tip strobe/ position light, 14V
P/N 01-0770024-00	1	A500AV14	Tail position/strobe light assembly
P/N 01-0750205-00	1	HDT390	Installation package

Aircraft with Wing-tip Mounted Power Supplies
If the builder chooses to mount the strobe power supplies in the wings, adjacent to the light head assemblies the following is recommended:

	Qty.	Model	Description
P/N 01-0770062-03	2	A490ATSC	Power supply
P/N 01-0790006-00	1	A600PG14	Wing-tip strobe/ position/tail light, 14V
P/N 01-0790006-02	1	A600PR14	Wing-tip strobe/ position/tail light, 14V
P/N 01-0750215-00	2	HS5	Installation package

Aircraft with Enclosed Wing-tip Fairings and Wing-tip Mounted Power Supplies
If the position and strobe lights are to be mounted under a clear fairing, the need for a third tail strobe is required.

The following is recommended:

	Qty.	Model	Description
P/N 01-0770062-03	2	A490ATSC	Power supply
P/N 01-0770054-00	1	A650PG14	Wing-tip strobe/ position/tail light, 14V
P/N 01-0770054-02	1	A650PR14	Wing-tip strobe/ position/tail light, 14V
P/N 01-0770024-00	1	A500AV14	Tail position/strobe light assembly, 14V
P/N 01-0750215-00	3	HS5	Installation package

Anti-Collision & Position Light Requirements, Locations, & Distribution Patterns

All aircraft must have an approved anti-collision light and position light system for nighttime operations. The position lights consist of an Aviation Red on the left side, an Aviation Green on the right, and an Aviation White taillight (REF. FAR 23.1389). The position lights must be wired independent of the anti-collision lights.

The anti-collision lighting system is required under FAR PART 91.205(c). There are different requirements affecting different aircraft. These aircraft are categorized by the date of application or certificate type. Home built aircraft are determined by the date of issuance of the Experimental Operating Limitations. The different categories are as follows:

- **Aircraft for which type certificate was applied for after April 1, 1957 to August 10, 1971**:
  These anti-collision systems must produce a minimum of 100 effective candela in aviation Red or White (REF. FAR 23.1397), 360˚ around the aircraft's vertical axis, 30˚ above and below the horizontal plane (REF. FAR 23.1401).
- **Aircraft for which type certificate was applied for after August 11, 1971 to July 18, 1977:**
  These anti-collision systems must produce a minimum of 400 effective candela in aviation Red or White (REF. FAR 23.1397), 360˚ around the aircraft's vertical axis, 30˚ above and below the horizontal plane (REF. FAR 23.1401).
- **Aircraft for which type certificate was applied for after July 18, 1977:**
  These anti-collision systems must produce a minimum of 400 effective candela in aviation Red or White (REF. FAR 23.1397), 360˚ around the aircraft's vertical axis, 75˚ above and below the horizontal plane (REF. FAR 23.1401).

Radio Noise Suppression

Whelen strobe light lenses **P/N A428, A457A, A612** and the **A402A** are available with an advanced RF shielding technique that Whelen engineering developed to reduce radio interference. When properly grounded to the aircraft structure, these radio shielded strobe light heads will reduce the radiated RF energy created by the trigger pulse as much as 15-17 DB. (To locate RF shielded parts, refer to Whelen Engineering's strobe light parts list). A429 strobe light head, use the A428-D which is an RF shielded A428 lens epoxied into an A426 retainer. A470A, can be radio shielded by replacing the existing lens with **P/N A402A-D( )** color. A500A, use the A457B-D, V or H which is an RF shielded A457A lens epoxied into an A425A-V or H lens retainer. A650 strobe light head, use the A626-D which is an RF shielded A612 lens epoxied into an A626 lens retainer.

About CometFlash®

Whelen engineering is proud to have introduced the CometFlash CF, a major advancement in the field of safety lighting. By pulsing the flash tube four times in rapid succession, the effective "on-time" of the strobe is increased from 2/1000 of a second to 4/10 of a second. This increases your airplane's visibility. The development of the CometFlash® reflects Whelen's dedication to safety.

Installation Locations

Wing-tip

The installation time for wing-tip strobe light systems will vary depending on the type of system being installed. Installation time can be greatly reduced if it is done in conjunction with an annual or 100-hour inspection. The major difference in the systems is the location of the strobe power supply. They can be mounted locally, one in each wing-tip, or a single power supply mounted in the fuselage.

There has been some concern in the past with running the high voltage cable through the wings and by the fuel tanks. For there to be an explosion two conditions must be met. There must be an explosive atmosphere, and there must be a source of ignition. For there to be an explosive atmosphere inside the wing, it would require a fuel tank leaking into the wing. However, strobe power cables are not routed through the wing bays, they are routed forward or aft. Then there is the matter of spark for ignition. For this to occur there would have to be a breakdown of the cable insulation. This is very unlikely if the cable has been properly installed. The power supplies are designed to turn off when there is a short. With power supplies mounted in the wing, the input wires still need to be run to provide power to them.

Fuselage

Another option is to install fuselage mounted units. They can be either self contained, in which the power supply and light head are one unit, or remote light heads run off a separate power supply. To meet the field of coverage, one must be on the top of the fuselage and one on the bottom.

Vertical Fin

Lastly if applicable, a single anti-collision light can be mounted on the vertical stabilizer. It also can be either a self contained unit or a remote light head, depending on the aircraft.

How to Choose A Power Supply

The power supply needed depends on the application, and the mounting location. The model HDA,CF series is a fuselage mounted power supply that will power two or three lights. The model HTS,CF series is designed for installation adjacent to the strobe light head and will power one light assembly. The model HT,CF series is the most economical power supply when adding only one light. It mounts adjacent to the strobe light head assembly. (Not legal for light output with red strobe light) Most other Whelen power supplies are application specific, contact factory for details. Unless otherwise noted, all power supplies are CometFlash®.

Model 70905 Series LED Beacons (For Rotorcraft)

The Model 70905 Series are FAA TSO'd self-contained anti-collision lights for rotorcraft. An external power unit is not required. The durability of LED's as a light source will significantly reduce operating costs associated with spare part replacement and premature failure of existing light sources. All units meet the minimum requirements stated in FAR Parts 27 & 29 for anti-collision light systems used on rotorcraft, Ref; Class I (150 effective candela) of SAE AS8017a Minimum Performance standards. (Available in 28 volts only).

P/N 01-0770905-01
P/N 01-0770905-02
P/N 01-0770905-03

70905-01

Model 7090501
Model 7090501 is designed to replace existing beacons with the 5 hole-mounting pattern on a 4.656 Dia. bolt circle. (Ref. Whelen 70285 series). It incorporates an MS3102R10SL-3P connector for input.

70905-02

Model 7090502
Designed to replace existing remote mounted strobe lights (Ref. Whelen A470A series). A power supply is no longer required.

Model 7090503
Designed to replace existing beacons with the 3-3/4" Dia. mounting pattern. (Ref. Whelen HRCFA series, 90081 Series, and the old style rotating beacons). It has the same mounting hole pattern. No modification to the aircraft is required.

70905-03

Specifications

	70905-01	70905-02	70905-03
Power Consumption	0.45 AMPS @ 28VDC	0.45 AMPS @ 28VDC	0.45 AMPS @ 28VDC
LED Color	Aviation red	Aviation red	Aviation red
Weight	1.4 lbs.	1.2 lbs.	1.1 lbs.
Exposed Height	4.04"	4.14"	3.1"
Exposed Diameter	3.66"	3.66"	2.8"
Approvals	FAA/TSO-C96a	FAA/TSO-C96a	FAA/TSO-C96a

Model 90088 Series LED Ground Recognition Light

The Model 90088 Series is a ground recognition light assembly. The solid-state circuitry obsoletes the "old style" oscillating mechanical beacon, (no moving parts). There is no EMI or RFI produced. Reduced current draw results in no inrush current spikes to show up on your strike finder. Crisp on off cycles compared to flashing and mechanical beacons. All units comply with the color requirements stated in FAR Parts 23, and 25 for Aviation Red. They are compatible with existing ground recognition light mounting patterns and profiles without altering the aircraft.

P/N 01-0790088-( )

Specifications

Power Consumption	0.45 AMPS @ 28VDC
LED Color	Aviation red
Weight	1.8 lbs. (nominal)
Exposed Height	2.70"
Length	9.87"
Description	Ground recognition light
Approvals	FAA design conformity RTCA/DO-160d

Model 70875 Series LED Forward Position Lights

The Model 70875 Series, are fully FAA TSO'd forward position lights. They result in a high quality, long lasting, modern alternative to existing incandescent and halogen forward position lights. The solid state LED light source has shown conservative lab life results greater than 20,000 hours. They are Shock & Vibration resistant due to no fragile filament to break or burn out. The lens design is hard-coated polycarbonate. These advantages will greatly reduce operating costs. All units comply with the color requirements stated in FAR Parts 23, 25, 27 and 29 for Aviation Red, and Aviation Green. They are compatible with existing position light mounting patterns and profiles.

P/N 01-0770875-01
P/N 01-0770875-02

Specifications

Power Consumption	0.35 AMPS @ 28VDC	
Weight:	0.26 lbs.	
Exposed Height	1.39"	
Exposed Diameter	3.92"	
	Model 7087501	**Model 7087502**
LED Color	Aviation red	Aviation green
Description	Green position light 28V	Red position light 28V
Approvals	FAA/TSO-C30c Type II	FAA/TSO-C30c Type I

Model 90285 Series LED Forward Position Lights

The Model 90285 series are forward position light modules for enclosed wing-tips. They are designed to eliminate the need for dual mounted position lights typical with most corporate and commuter aircraft. They have all the advantages associated with using LED's as a light source to improve reliability and reduce operating costs. All units comply with the color requirements stated in FAR Parts 23, 25, 27 and 29 for Aviation Red and Aviation Green. Contact factory regarding custom designs for specific aircraft.

P/N 01-0790285-01
P/N 01-0790285-02

Specifications

Power Consumption	0.6 AMPS @ 28VDC
Weight	0.55 lbs.
Exposed Height	1.52"
Exposed Diameter	4.78"

	Model 9028501	Model 9028502
LED Color	Aviation red	Aviation green
Description	Green position light 28V	Red position light 28V
Approvals	FAA/TSO-C30c Type II	FAA/TSO-C30c Type I

Model 70900 Series LED Beacons (For Fixed Wing Aircraft)

The Model 70900 Series are FAA TSO'd self-contained anti-collision lights for fixed wing aircraft. An external power unit is not required. The durability of LED's as a light source will result in a high quality, long lasting modern alternative to existing anti-collision lighting. The solid state LED light source has shown conservative lab life results greater than 20,000 hours. There is no EMI or RFI produced. The lens design is one-piece construction that is much less susceptible to environmental or chemical breakdown. Low current draw means no inrush current that is inherent with strobes and halogen flashers. All units meet the minimum requirements stated in FAR Parts 23 & 25 for anti-collision light systems used on fixed wing aircraft, Ref; Class III (100 effective candela) of SAI AS8017a Minimum Performance standards. (Specify voltage when ordering).

Models 7090002 & 7090003, are designed to replace existing remote mounted strobe lights (Ref. Whelen A4704A series). A strobe power supply is no longer required.

P/N 01-0770900-02
P/N 01-0770900-03

Specifications

LED Color	Aviation red
Weight	1.1 lbs.
Exposed Height	4.14"
Exposed Diameter	3.66"

	Model 709002	Model 709003
Power Consumption	0.85 AMPS @ 14VDC	0.425 AMPS @ 28VDC
Description	Red LED beacon, 14V	Red LED Beacon, 28V
Approvals	FAA/TSO-C96a	FAA/TSO-C96a

Models 7090004 & 7090005

Designed to replace existing light assemblies with the 3-3/4" Dia. mounting pattern. (Ref. Whelen HRCFA series, 90081 Series, and the "old style" rotating beacons). It has the same mounting hole pattern. No modification to the aircraft is required.

P/N 01-0770900-04

P/N 01-0770900-05

Specifications

LED Color	Aviation red	
Weight	1.1 lbs.	
Exposed Height	3.1"	
Exposed Diameter	2.8"	
	Model 7090004	**Model 7090005**
Power Consumption	0.85 AMPS @ 14VDC	0.425 AMPS @ 28VDC
Description	Red, 3-3/4 dia mount, 1V	Red, 3-3/4 dia mount, 28V
Approvals	FAA/TSO-C96a	FAA/TSO-C96a

70844 Series

The model 70844 series are LED instrument post light assemblies. They are designed to illuminate the instrument panel, and function as instrument mounting bolts. It is a high quality, long lasting, modern alternative to standard incandescent post lights. They offer significant technological upgrades over existing products. Utilizing LED technology, the following advantages are offered. Long life—approximately 20,000 hours.

A reduced power consumption—compared to alternative light sources. Shock and vibration resistant—no fragile filament to burn out. Light—produces bright white light. No EMI or RFI interference.

P/N 01-0770844-00
P/N 01-0770844-01
P/N 01-0770844-02
P/N 01-0770844-03

Specifications

Weight	0.03 lbs.
Exposed Height	1.00" w/o spacer, 1.12" w/spacer
Power Consumption	0.02 AMPS @ 14V, & 0.02 AMPS @ 28V
Drawing Number	70844

Model	Description	Approvals
7084400	14V, 1.00" post	—
7084401	14V, 1.50" post	—
7084402	28V, 1.00" post	—
7084403	28V, 1.50" post	—

A350 & A350CN Series

FAA/PMA Approved

Instrument post light assemblies designed to illuminate the instrument panel and function as instrument mounting bolts. The A350 is identical to the A350CN, but without the connector nut.

P/N 01-0770116-( )
P/N 01-0770119-( )

A350

A350CN

Specifications

Weight	0.037 lbs.
Exposed Height	875" w/o spacer, 1.00" w/spacer
Power Consumption	0.2 AMPS @ 6V, 0.08 AMPS @ 14V, & 0.04 AMPS @ 28V
Drawing Number A350	70116
Drawing Number A350CN	0119

Model Number	Description
A350	Instrument post light assemblies
A350CN	Instrument post light assemblies

Ordering Options

Lens Colors	Post Colors	Post Heights	Voltages
IW = Instrument white	BK = Black	SH = Short (1.875")	6 = (328 lamp)
CL = Clear	GR = Grey	LG = Long (2.375")	14 = (330 lamp)
RD = Red			28 = (327 lamp)

Ordering Code Example: A350CN - BK - CL - SH - 14

Assy P/N | Post Color | Lens Color | Post Height | Voltage

70348 Series

Instrument post light assemblies designed to illuminate the instrument panel and function as instrument mounting bolts. The unit has a #10-32 mounting thread, and uses the #327 lamp. 28V only.

P/N 01-0770348-00—7034800
P/N 01-0770348-01—7034801
P/N 01-0770348-02—7034802
P/N 01-0770348-03—7034803

Specifications

Weight	0.037 lbs.
Exposed Height	0.856"
Power Consumption	0.04 AMPS @ 28V
Drawing Number	70348

Model	Description
7034800	28V, inst. white
7034801	28V, red w/spacer
7034802	28V, clear
7034803	28V, red

C70190 Series

Interior gooseneck light assembly featuring a positive off-position and rheostat controlled light intensity. Uses the #1495 lamp. Available in 28V only.

P/N 01-0770190( )

Ordering Code Example: **70190 - B - 12**

Model P/N
70190

Lens Color
W = Clear
R = Red
B = Blue
(Inst. White)

Arm Length in Inches
04 = 4", **06** = 6" **08** = 8"
10 = 10", **12** = 12", **14** = 14", **16** = 16",
18 = 18", **20** = 20", **22** = 22", **24** = 24"

Specifications

Weight	0.3 lbs.
Lamp	6 watt
Power Consumption	0.3 AMPS @ 28V
Drawing Number	70190

Model	Description	Approvals
70190( )	As requested (see chart)	FAA/PMA (12" Only)

A315-HI Series

Cockpit utility light assembly which rotates for convenience in reading maps and illuminating instrument panels. Furnished with a right angle bracket for ease of mounting. Available with Instrument white (blue) lens, red or clear. Uses a 14V #1414 lamp or a 28V #1495 lamp.

P/N 01-0770113-00—A315HIR1
P/N 01-0770113-01—A315HIR2
P/N 01-0770113-02—A315HIW1
P/N 01-0770113-03—A315HIW2
P/N 01-0770113-04—A315HIB1
P/N 01-0770113-05—A315HIB2

Specifications

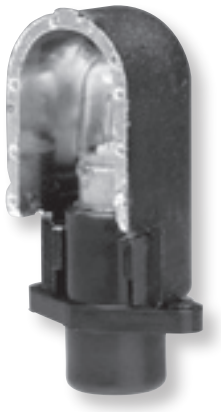
Weight	0.07 lbs.
Height	2.2"
Depth	0.93"
Width	0.87"
Power Consumption	0.46 AMPS @ 14V, 0.3 AMPS @ 28V
Drawing Number	70113

A315HIR1	14V, red lens	—
A315HIR2	28V, red lens	—
A315HIW1	14V, white lens	—
A315HIW2	28V, white lens	—
A315HIB1	14V, instrument white lens	—
A315HIB2	28V, instrument white lens	—

A315-LO Series

Cockpit utility light assembly which rotates for convenience in reading maps and illuminating instrument panels. Optional right angle bracket available for ease of mounting. Uses a 14V #1893 lamp or a 28V #1864 lamp.

P/N 01-0770106-00—A315LO14
P/N 01-0770106-01—A315LO28



Specifications

Weight	0.06 lbs.
Height	2.18"
Depth	0.81"
Width	0.81"
Power Consumption	0.33 AMPS @ 14V, 0.17 AMPS @ 28V
Drawing Number	70106

Model	Description
A315LO14	14V
A315LO28	28V

A715-1 Series

A fixture that accommodates a standard PAR 36 lamp assembly available with or without a lamp. Used on Beechcraft.
P/N 01-0770155-00—A7151
P/N 01-0770155-02—7015502

Specifications

Depth	2.12"
Diameter	4.75"
Weight With Lamp	1.0 lbs.
Weight Less Lamp	0.4 lbs.
Drawing Number	70155

Model	Description	Approvals
A7151	Housing only, less lamp	FAA/PMA
7015502	Housing with #Q5596 lamp	—

Installation Cable Kits

All cable kits include all required connectors for hooking up the strobe light to the power supply only, warming placards and the Installation Service Manual. All cable is 16 gauge 3/c shielded. The cable diameter is .275". The weight is .050 lbs. per linear foot. Kits do not include switches or breakers.

	Model	Description	Approvals
P/N 01-0750215-00	HS5	5' cable kit	—
P/N 01-0750218-00	HT10	10' cable kit	—
P/N 01-0750214-00	HS30	30' cable kit	—
P/N 01-0750206-00	HD60	60' cable kit	—
P/N 01-0750205-00	HDT390	90' cable kit	—
P/N 01-0750216-00	HT	Install kit only no cable	—

Replacement Connectors for Cables

	Model	Description	Approvals
P/N 01-0430011-00	A441	3 position male connector with pins	—
P/N 01-0410823-00	A442	3 position female connector with sockets	—
P/N 01-0230007-00	A444	2 position male connector with pins	—
P/N 01-0430011-00	A446	2 position female connector with sockets	—

HDACF Series

FAA/PMA Approved

The model HDACF series provides simultaneous flashing, alternate flashing or both. It will operate one, two or three–strobe light heads. Operating the wing-tip strobes in the alternating mode will provide an accumulated 42 joules of power to each light. When in the simultaneous mode, the accumulated power to each light is 21 joules. In the three-light mode, the wing-tips will flash simultaneous at an accumulated 21 joules each, they alternate with a third light operating at an accumulated 42 joules. On trigger selector outlet, a switch mounted in place of the jumper will allow wing-tip outlets two and three to be turned off, while the tail outlet #1 will remain on. This function is commonly used when the third light is for ground operations. This power supply will operate from 10 to 30VDC.

P/N 01-0770028-05

Specifications

Power Consumption	7.0 AMPS @ 14VDC; 3.5 AMPS @ 28VDC
Weight	2.1 lbs.
Length	5.50″
Width	5.0″
Height	2.37″
Model	HDACF
Description	A413AHDACF power supply
Drawing Number	70028

HTSCF Series

FAA/PMA Approved

The model HTSCF series operates one strobe light head. Its compact size allows mounting in the wing-tip and/or the tail, adjacent to the light head. It produces an accumulated 34 joules of power, and can be equipped to flash simultaneously with up to five other like units by connecting an 18-gauge wire between outlet #3 on the input power connector. This power supply will operate from 10 to 30VDC.

P/N 01-0770062-03

Specifications

Power Consumption	4.0 AMPS @ 14VDC; 2.0 AMPS @ 28VDC
Weight	1.7 lbs.
Length	5.0″
Width	2″
Height	3.06″
Model	A490ATSC
Description	A490ATS CF power supply
Drawing Number	70062

HTCF Series

FAA/PMA Approved

The model HTCF series operates one strobe light head. Their our most compact unit and can be mounted in the wing-tip and/or the tail adjacent to the light head. It produces an accumulated 19 joules of power. It will only meet 400 CP when used with the A470A-W. This unit cannot be synchronized. This power supply operates from 10 to 30VDC. (Not approved for use with red strobe light).

P/N 01-0770006-08—A490TCF
P/N 01-0770006-14—A490TCFM
P/N 01-0770006-15—7000615

Specifications

Power Consumption	1.7 AMPS @ 14VDC; 0.85 AMPS @ 28VDC
Weight	1.2 lbs.
Length	5.0"
Width	3.12"
Height	2.38"
Drawing Number	70006

Model	Description
A490TCF	Standard unit, 20" leads, AMP connectors
A490TCFM	20" leads, Molex connectors
7000615	20" leads, no connectors

HTCCF Series

FAA/PMA Approved

The model HTCCF series is the same as the A490ATSCF but has a mounting plate with additional holes that directly replaces factory installed systems on single engine Cessna's, Aero Commanders, and Grumman Americans.

P/N 01-0770006-09—A490TCCF
P/N 01-0770006-12—7000612
P/N 01-0770006-16—7000616
P/N 01-0770006-17—7000617

Specifications

Power Consumption	1.7 AMPS @ 14VDC; 0.85 AMPS @ 28VDC
Weight	1.2 lbs.
Length	5.0"
Width	3.12"
Height	2.38"
Drawing Number	70006

Model	Description
A490TCCF	Standard unit, 20" leads, AMP connectors
7000612	9" output, 7" input, leads (Cessna 172)
7000616	20" leads, mS conn. on output lead
7000617	3" output, 7" input & 4 pos. AMPS connector (Cessna) (182,206)

90101 Series

FAA/TSO-C96a Approved

The model 90101 series is similar to the HTCF but has military connectors. It is available in single flash or comet flash. Several different configurations are available for application specific installations.

P/N 01-0790101-00—9010100
P/N 01-0790101-01—9010101
P/N 01-0790101-02—9010102
P/N 01-0790101-04—9010104
P/N 01-0790101-05—9010405

Specifications

Power Consumption	4 AMPS @ 14VDC; 2 AMPS @ 28VDC
Weight	1.7 lbs.
Length	5.0"
Width	3.12"
Height	3.50"
Drawing Number	90101

Model	Description
9010100	24 joule, single flash
9010101	24 joule, single flash, old style mtg. plate
9010102	24 joule, single flash, w/add on mtg. plate
9010104	34 joule, comet flash, replaces Grimes 60-2799 when used with mounting brackets FAA/TSO-C96a
9010405	34 joule, comet flash FAA/TSO-C96a

90079 Series

FAA/PMA Approved

The model 90079 series is similar to the HDA,CF series, but has military connectors. Connectors two and three (wing-tips) will operate simultaneously, and will alternate with connector 1 (tail). When operating two lights use connectors one and two to operate in the alternating mode.

P/N 01-0790079-04—9007904
P/N 01-0790079-06—9007906

Specifications

Power Consumption	7 AMPS @ 14VDC; 3.5 AMPS @ 28VDC
Weight	2.3 lbs.
Length	5.50"
Width	5.0"
Height	2.40"
Drawing Number	90079

Model	Description
9007904	42 joule, comet flash, replaces Grimes 60-1750-1 & 3
9007906	42 joule, comet flash, socket outputs, w/add on mtg. brackets

A600 PG/PR Series

Wing-tip anti-collision, forward position, and tail position lights, all in one compact unit. Tail position light eliminates the need for a tail mounted position light. Available in 14 or 28V, and in a radio-shielded version. The forward position lamp is 26 watts and the tail light lamp is 25 watts.

P/N 01-0790006-00—A600PG14
P/N 01-0790006-01—A600PG28
P/N 01-0790006-02—A600PR14
P/N 01-0790006-03—A600PR28
P/N 01-0790006-04—A600PGD1
P/N 01-0790006-05—A600PGD2
P/N 01-0790006-06—A600PRD1
P/N 01-0790006-07—A600PRD2
P/N 01-0790006-12—9000612
P/N 01-0790006-13—9000613

Specifications

Position Lamps	
Power Consumption	4 AMPS @ 14VDC; 2 AMPS @ 28VDC
Weight	0.8 lbs.
Exposed Height	2.4"
Length	5.63"
Width	1.7"
Drawing Number	90006

Model	Description	Approvals
A600PG14	Position green, 14V	FAA/TSO-C30b, FAA/PMA
A600PG28	Position green, 28V	FAA/TSO-C30b, FAA/PMA
A600PR14	Position red, 14V	FAA/TSO-C30b, FAA/PMA
A600PR28	Position red, 28V	FAA/TSO-C30b, FAA/PMA
A600PGD14	Position green, 14V, radio shielded	—
A600PGD28	Position green, 28V, radio shielded	—
A600PRD14	Position red, 14V, radio shielded	—
A600PRD28	Position red, 28V, radio shielded	—
9000612	Position green, 28V, radio shielded, used on Cirrus Design	FAA/TSO-C30b, FAA/PMA
9000613	Position red, 28V, radio shielded, used on Cirrus Design	FAA/TSO-C30b, FAA/PMA

A650 PG/PR Series

FAA/PMA Approved

Wing-tip with anti-collision and forward position lights. Can be used to convert non-Whelen position lights into a position/anti-collision light system. The small size allows for mounting into a wing-tip enclosure. Available in 14 or 28V, and in a radio-shielded version. The forward position lamp is 26 watts.

P/N 01-0770054-00—A650PG14
P/N 01-0770054-01—A650PG28
P/N 01-0770054-02—A650PR14
P/N 01-0770054-03—A650PR28
P/N 01-0770054-04—A650PGD14
P/N 01-0770054-05—A600PGD28
P/N 01-0770054-06—A600PRD14
P/N 01-0770054-07—A600PRD28

Specifications

Pos. Lamp	
Power Consumption	2 AMPS @ 14VDC; 1 AMPS @ 28VDC
Weight	0.6 lbs.
Exposed Height	2.4"
Length	4.0"
Width	1.7"
Drawing Number	70054

Model	Description
A650PG14	Position green, 14V
A650PG28	Position green, 28V
A650PR14	Position red, 14V
A650PR28	Position red, 28V
A650PGD14	Position green, 14V, radio shielded
A600PGD28	Position green, 28V, radio shielded
A600PRD14	Position red, 14V, radio shielded
A600PRD28	Position red, 28V, radio shielded

A650 Series

FAA/PMA Approved

Converts existing Whelen W1285 position lights into a position/anti-collision light system by removing the existing retainer and replacing it with the A650 assembly. Available in a radio shielded version.

P/N 01-0770053-00—A650
P/N 01-0770053-13—A650D

Specifications

Weight	0.2 lbs.
Exposed Height	2.4"
Drawing Number	70053

Model	Description
A650	Standard unit
A650D	Radio shielded

A625 Series

The model A625 has many different applications. It can be used for aircraft with tip-tanks; with enclosed position lights (under a fairing), or as an add on strobe on the wing or the tail. Available in a radio-shielded version.

P/N 01-0770058-03—A625
P/N 01-0770058-13—A625D
P/N 01-0770058-04—A625R
P/N 01-0770058-14—A625DR
P/N 01-0770058-15—7005815
P/N 01-0770058-16—7005816

Specifications

Weight	0.2 lbs.
Exposed Height	1.7"
Drawing Number	70058

Model	Description	Approvals
A625	Standard unit, clear lens	FAA/PMA
A625D	Radio shielded, clear lens	FAA/PMA
A625R	Standard unit, red lens	—
A625DR	Radio shielded, red lens	—
7005815	Radio shielded, 3/c cable, 12" ground braid	FAA/PMA
7005816	Radio shielded, 24" 3/c cable, w/mS connector	FAA/PMA

70821 Series

Remote streamlined strobe light assembly. Easily mounted on the wing-tip for anti-collision or on the vertical fin for ground recognition. It is recommended for the wing-tips on Cessna single engine aircraft 1970-71. Its sleek aerodynamic shape allows it to be mounted where surface area is at a premium, or to simply "clean up" the look of the airplane. It can be added as a low profile ground recognition light when mounted on the vertical fin or fuselage. A mounting adapter plate facilitates mounting.

P/N 01-0770821-00—7082100
P/N 01-0770821-01—7082101
P/N 01-0770821-02—7082102
P/N 01-0770821-03—7082103

Specifications

Weight	0.3 lbs.
Exposed Height	1.8"
Length	3.5
Width	1.8"
Drawing Number	70821

Model	Description
7082100	Standard unit, clear lens
7082101	Radio shielded, clear lens
7082102	Standard unit, red lens
7082103	Radio shielded, red lens

A610 & A612 Series

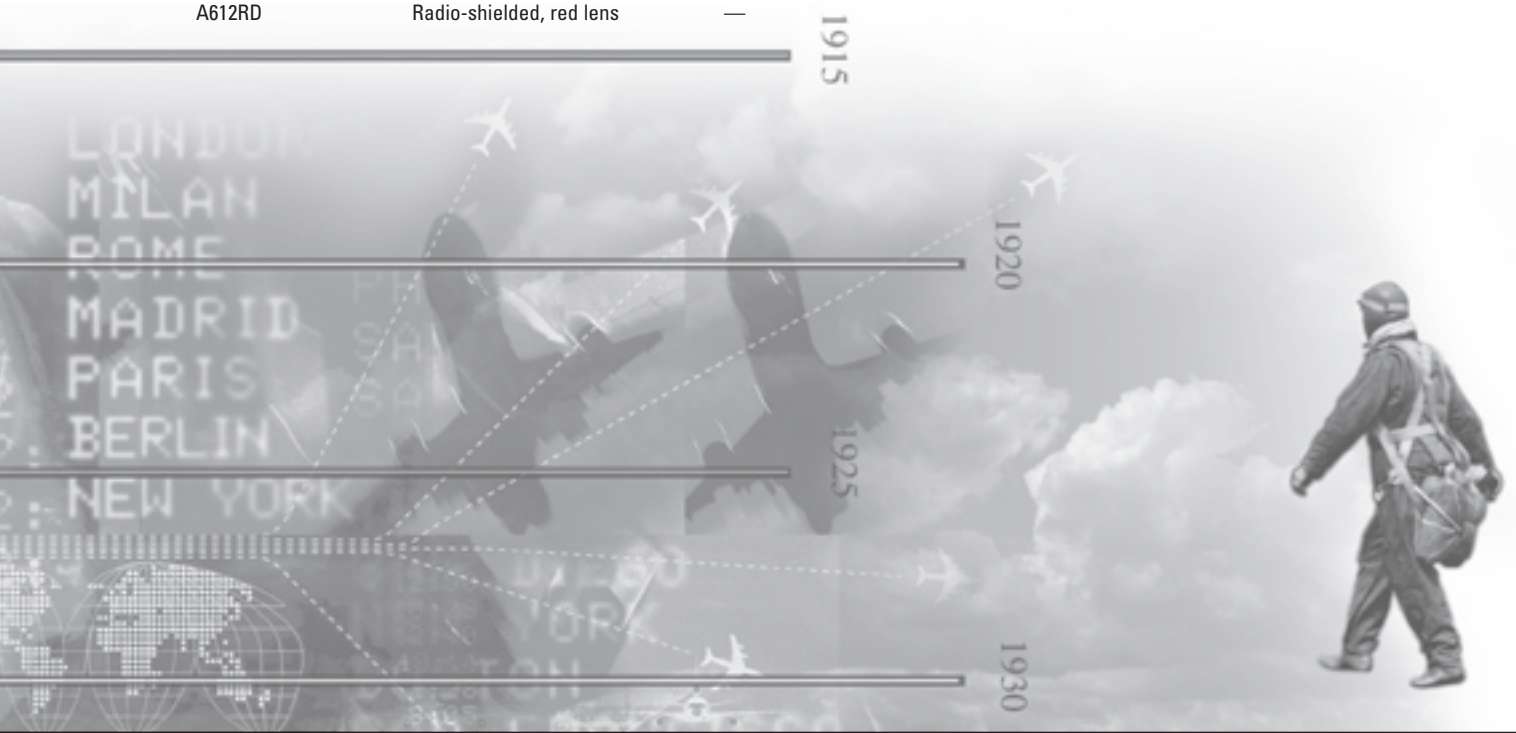
The Model A610 flash tube and the Model A612 glass lens are used for installing wing-tip strobes in single engine Cessna's 1972 and later. The existing position light retainer is modified to accommodate the lens, and the flash tube is mounted directly behind. The unique magnifying design of the A612 lens increases the light intensity by two to three times in the horizontal plane. These items may be used for custom installations or as spare parts for existing light assemblies. The A612 lens is available in aviation red, and an RFI coated version. Lenses meet material requirements of MIL-C-7989B class B.

P/N 02-0250276-00—A610
P/N 02-0250276-03—A610M
P/N 02-0250276-01—5027601
P/N 02-0250276-02—5027602
P/N 68-2290005-30—A612
P/N 68-2290005-34—A612D
P/N 68-2290005-50—A612R
P/N 68-2290005-54—A612RD

Specifications

A610	
Flash Tube Weight	0.09 lbs.
A612	
Lens Weight	0.08 lbs.
Drawing Number A610	50276
Drawing Number A612	90005

Model	Description	Approvals
A610	Standard unit, 6" leads	FAA/PMA
A610M	Molex connector, 6" leads	FAA/PMA
5027601	14" leads	FAA/PMA
5027602	12.5" leads	FAA/PMA
A612	Standard clear lens	FAA/PMA
A612D	Radio shielded, clear lens	—
A612R	Standard red lens	—
A612RD	Radio-shielded, red lens	—



A500A Series

Combination strobe/tail navigation light used when the wing-tip anti-collision lights are mounted in an enclosure and can't provide 360˚ of strobe coverage. It is a direct replacement for the standard tail position light. Available in a radio-shielded version. Voltage (14 or 28), and mounting, (horizontal or vertical) must be specified when ordering.

P/N 01-0770024-00—A500AV14
P/N 01-0770024-01—A500AV28
P/N 01-0770024-02—A500AH14
P/N 01-0770024-03—A500AH28
P/N 01-0770024-04—A500AVD1
P/N 01-0770024-05—A500AVD2
P/N 01-0770024-06—A500AHD1
P/N 01-0770024-07—A500AHD2
P/N 01-0770024-25—A500ASP2
P/N 01-0770024-16—A500ABV1
P/N 01-0770024-15—A500ABV2

Specifications

Weight	0.3 lbs.
Exposed Height	1.7"
Diameter	1.5"
Drawing Number	70024

Model	Description	Approvals
A500AV14	Vertical mount, 14V	FAA/PMA, FAA/TSO-C30b
A500AV28	Vertical mount, 28V	FAA/PMA, FAA/TSO-C30b
A500AH14	Horizontal mount, 14V	FAA/PMA, FAA/TSO-C30b
A500AH28	Horizontal mount, 28V	FAA/PMA, FAA/TSO-C30b
A500AVD14	Vertical mount, 14V, radio shielded	—
A500AVD28	Vertical mount, 28V, radio shielded	—
A500AHD14	Horizontal mount, 14V, radio shielded	—
A500AHD28	Horizontal mount, 28V, radio shielded	—
A500ASP28	Vertical mount, 28V, 50" cables, no connectors	—
A500ABV14	Beech special 14V, MS connector	—
A500ABV28	Beech special 24V, MS connector	—

A470A Series

FAA/PMA Approved

A remote strobe light assembly, compatible with all Whelen power supplies. It can be installed on the fuselage or the vertical fin. The unique polycarbonate optic lens and reflector design, re-directs stray light rays into the horizontal plane to provide the maximum 360˚ of uniform light coverage possible. Available in three different lens colors, aviation red, aviation white, and split aviation red/white, and available in radio-shielded configurations. All assemblies require either the Model H102 or H103 mounting adapter.

P/N 01-0770019-18—A470AR
P/N 01-0770019-19—A470AW
P/N 01-0770019-20—A470AS
P/N 01-0770019-21—A470ADR
P/N 01-0770019-22—A470ADW
P/N 01-0770019-23—A470ADS

Specifications

Weight	0.3 lbs.
Exposed Height	3.75"
Diameter	2.5"
Drawing Number	70019

Model	Description
A470AR	Standard assembly, red lens
A470AW	Standard assembly, white lens
A470AS	Standard assembly, split red/white lens
A470ADR	Radio shielded assembly, red lens
A470ADW	Radio shielded assembly, white lens
A470ADS	Radio shielded assembly, split red/white lens

H102 & H103

Designed for the Model A470A and the Model A450 series remote strobe light head assemblies. The Model H102 allows flush mounting of the light head to the skin of the fuselage, or the vertical stabilizer, on later model Cessna single engines. The H103 is designed for strobe assemblies to be installed in the standard 3-3/4" diameter-rotating beacon mounting hole.

P/N 07-730068-000—H102

P/N 11-230079-000—H103

H103

H102

Specifications

Drawing Number H102	30068
Drawing Number H103	30079

Model	Description	Approvals
H102	Flush mount adapter	FAA/PMA
H103	Rotating beacon mount adapter	—

A450 Series

FAA/PMA Approved

A remote strobe light assembly compatible with all Whelen power supplies. It can be installed on the fuselage or the vertical fin. The pyrex glass lens (clear only) makes the assembly suitable for use in severe vibration, chemical and moisture conditions, i.e. agricultural aircraft. Requires either the Model H102 or the Model H103 mounting adapter.

P/N 01-0770032-00

Specifications

Weight	0.3 lbs.
Exposed Height	2.25"
Diameter	2.5"
Drawing Number	70032

Model	Description
A450	Standard assembly, clear lens

90111 Series

FAA/PMA Approved

A remote strobe light assembly compatible with all Whelen power supplies. Can be installed on the wing-tip or the tail.

P/N 01-0790111-00—9011100
P/N 01-0790111-02—9011102

Specifications

Weight	0.5 lbs.
Exposed Height	2.08"
Width	1.75"
Length	2.5"
Drawing Number	90111

Model	Description
9011100	Shielded, clear lens (BeechJet)
9011102	Shielded, masked red lens, (Piper)

90028 Series

A wing-tip strobe light used on Beech aircraft with commonality wing-tip 1974 and later. It is a direct replacement for 30-0467-( ), 30-1331-( ) and the 30-1467-( ) series.

P/N 01-0790028-00—9002800
P/N 01-0790028-01—9002801
P/N 01-0790028-03—D900283
P/N 01-0790028-05—D900285
P/N 01-0790028-07—D900287
P/N 01-0790028-09—D900289

Specifications

Weight	0.4 lbs.
Exposed Height	1.87"
Length	4.37"
Depth	2.25"
Drawing Number	90028

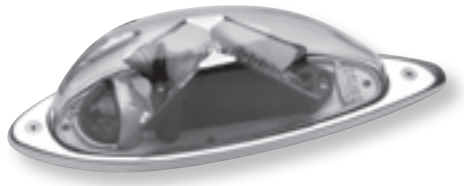
Model	Description	Approvals
9002800	Replacement flash tube assembly, unpainted	—
9002801	Replacement flash tube assembly, painted (white)	—
D900283	Wing-tip light assembly, 45° mtg. bracket	—
D900285	Tail light assembly, 90° mtg. bracket	—
D900287	Wing-tip light assembly, 45° mtg. bracket, MS connector	—
D900289	Tail light assembly, 90° mtg. bracket, MS connector	—

90159 Series

FAA/TSO-C30c, FAA/TSO-C96A Approved

Wing-tip strobe anti-collision and navigation light assembly, STC #ST22BO for Cessna Citation Models 550, S550, and 560. Can be installed on other aircraft with minor modifications. Unit will replace 30-1085 assemblies.

P/N 01-0790159-05—9015905
P/N 01-0790159-06—9015906
P/N 01-0790159-07—9015907
P/N 01-0790159-08—9015908



Specifications

Weight	1.9 lbs.
Exposed Height	3.6"
Length	11.03"
Width	3.06"
Forward Position Lamp	2 AMPS @ 28V
Tail Position Lamp	2 AMPS @ 28V
Drawing Number	90159

Model	Description
9015905	Left wing-tip (red position lens) no tail position light
9015906	Right wing-tip (green position lens) no tail position light
9015907	Left wing-tip with tail position light
9015908	Right wing-tip with tail position light

90206 Series

FAA/TSO-C30c, FAA/TSO-C96A Approved

Wing-tip strobe anti-collision & navigation light assembly, STC #ST00101BO for Cessna Citation Model 560, serial numbers 257 and up. Unit will replace 30-1085 assemblies.

P/N 01-0790206-03—9020603
P/N 01-0790206-04—9020604
P/N 01-0790206-07—9020607
P/N 01-0790206-08—9020608

Specifications

Weight	1.9 lbs.
Exposed Height	3.6"
Length	11.03"
Width	3.06"
Forward Position Lamp	2 AMPS @ 28V
Tail Position Lamp	2 AMPS @ 28V
Drawing Number	90206

Model	Description
9020603	Left wing-tip (red position lens) no tail position light
9020604	Right wing-tip (green position lens) no tail position light
9020607	Left wing-tip with tail position light
9020608	Right wing-tip with tail position light

HR,CFA Series

FAA/PMA Approved

The model HR,CFA series is a self-contained comet flash strobe anti-collision light. The unique polycarbonate optic lens and reflector design redirects stray light rays into the horizontal plane to provide maximum 360˚ of uniform light coverage. Available in three different lens colors, aviation red, aviation white, and split aviation red/white and in radio shielded configurations. FAA approved as a direct replacement for any rotating beacon that uses a 3-3/4" diameter mounting hole. Can be installed in the vertical fin, or the fuselage. Fuselage installation requires the A440 mounting adapter. Operates between 10 to 30VDC.

P/N 01-0770029-29—HR,CFAR
P/N 01-0770029-30—HR,CFAW
P/N 01-0770029-31—HR,CFAS
P/N 01-0770029-32—HR,CFADR
P/N 01-0770029-33—HR,CFADW
P/N 01-0770029-34—HR,CFADS

Specifications

Weight	1.5 lbs.
Height	7.25"
Diameter	3.7"
Power Consumption	3.2 AMPS @ 14V, 1.6 AMPS @ 28V
Drawing Number	70029

Model	Description
HRCFAR	Standard assembly, red lens
HRCFAW	Standard assembly, white lens
HRCFAS	Standard assembly, split red/white lens
HRCFADR	Radio shielded, red lens
HRCFADW	Radio shielded, white lens
HRCFADS	Radio shielded, split red/white lens

90081 Series

FAA/PMA Approved

Self-contained, 150-watt, halogen flashing anti-collision light. It uses a 3-3/4" diameter rotating beacon mounting hole. Available in 28V only. -01 and -02 units are supplied with the A440 mounting adapter.

P/N 01-0790081-00—9008100
P/N 01-0790081-01—9008101
P/N 01-0790081-02—9008102

Specifications

Weight	1.3 lbs.
Height	4.0"
Diameter	3.7"
Power Consumption	5.5 AMPS @ 28V
Drawing Number	90081

Model	Description
9008100	Vertical fin mount
9008101	Upper fuselage mount
9008102	Lower fuselage mount

70285 Series

FAA/PMA Approved

Self-contained comet flash strobe anti-collision light. It utilizes the same lens/reflector and strobe tube as the model HRCFA, however, its vibration resistant, heavy-duty construction is specially designed for helicopter applications. It has a fixed mounting adapter, and an MS input connector. Available in three different lens colors, aviation red, aviation white, and split aviation red/white and in radio shielded configurations. FAA approved as a direct replacement for any rotating beacon that uses a 3-3/4" diameter mounting hole. Unit will operate between 10 to 30VDC.

P/N 01-0770285-21—7028521
P/N 01-0770285-22—7028522
P/N 01-0770285-23—7028523
P/N 01-0770285-24—7028524
P/N 01-0770285-25—7028525
P/N 01-0770285-26—7028526
P/N 01-0770285-27—7028527
P/N 01-0770285-28—7028528

Specifications

Weight	1.5 lbs.
Height	8.0"
Diameter	3.7"
Power Consumption	3.2 AMPS @ 14V, 1.6 AMPS @ 28V
Drawing Number	70285

Model	Description
7028521	Shielded, red lens
7028522	Shielded, red lens w/.31 mask
7028523	White lens
7028524	Split red/white lens
7028525	Red lens
7028526	Shielded, red lens w/.29 mask
7028527	White lens, w/lock wire
7028528	Shielded, split red/white lens

SA,CF Series

FAA/PMA Approved

Self-contained comet flash strobe anti-collision light which utilizes the same power supply and housing as the model HR,CFA. It uses an aviation white glass lens only, ideal for agricultural applications where chemicals are used. Because the lens has no optics built in, it produces 300 effective candle power. It uses a 3-3/4" diameter mounting hole. Fuselage installation requires the A440 mounting adapter. Operates between 10 to 30VDC.

P/N 01-0770030-01

Specifications

Weight	1.5 lbs.
Height	5.50"
Diameter	3.7"
Power Consumption	3.2 AMPS @ 14V, 1.6 AMPS @ 28V
Drawing Number	70030

Model	Description
SACF	Aviation white lens

A440 Mounting Adapter

FAA/PMA Approved

The model A440 mounting adapter, is for fuselage installations for the HRCFA series, and the SACF series.

P/N 19-130074-009

Specifications

Drawing Number	30074

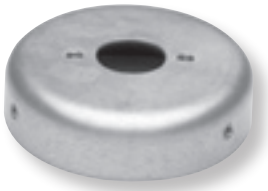
Model	Description
A440	Mounting adapter

70509 Series

Self-contained halogen flashing anti-collision light with the same mounting pattern as the factory installed beacon on single engine Cessna's 1967 and later. Available in three different lens colors, aviation red, aviation white, and split aviation red/white. When used in conjunction with the Model 50519 mounting adapter, it can replace rotating beacons with the 3-3/4" diameter mounting hole.

P/N 01-0770509-00—7050900
P/N 01-0770509-01—7050901
P/N 01-0770509-02—7050902
P/N 01-0770509-03—7050903
P/N 01-0770509-04—7050904
P/N 01-0770509-05—7050905
P/N 01-0770509-07—7050907
P/N 11-350519-001—50519001

Note: not recommended for installation on helicopters or twin engine aircraft.



50519001

Specifications

Weight	0.27 lbs.
Height	3.75"
Diameter	2.65"
Power Consumption	2.7 AMPS @ 14V, 1.3 AMPS @ 28V
Drawing Number	70509

Model	Description	Approvals
7050900	14V, red lens	FAA/TSO-C96A
7050901	14V, white lens	FAA/TSO-C96A
7050902	14V, red/white lens	FAA/TSO-C96A
7050903	28V, red lens	FAA/TSO-C96A
7050904	28V, white lens	FAA/TSO-C96A
7050905	28V, red/white lens	FAA/TSO-C96A
7050907	28V, red lens w/mask, Cessna single engines	FAA/TSO-C96A
50519001	Optional mounting adapter	—

90044 Series

FAA/TSO-C96A Approved

Self-contained, 150-watt, quartz halogen flashing anti-collision light. Factory installed on Lear 31, Falcon 900 and Cessna Citation X. It is also a direct replacement for oscillating beacons on most corporate aircraft.

5-Hole

8-Hole

Specifications

Weight	1.6 lbs. to 2.5 lbs.
Height	5.5"
Power Consumption	3.25 AMPS @ 28V
Drawing Number	90044
Replaces	G9950-( ) 40-0100-( ) 30-2140-( ) 40-0117-( ) 40-0127-( ) 30-2647-( )

To determine the model required for replacement the following information is needed: lens color—(red or white), upper or lower mounting location, number of mounting holes, (5, 8, or 9), weight and position installed. Beacons installed on the rudder, example: Citations and Barons require a 2.25 lbs. assembly. Top replacement on GII and GIII require 9004401 or 9004402 in conjunction with the 16-hole mounting plate.

P/N 06-170618-00 — 18 hole mounting plates for GII

	Model	Lens Color	Mount	Base	Remarks
P/N 01-0790044-01	9004401	Red	Upper	5-hole	Standard assembly
P/N 01-0790044-02	9004402	White	Upper	5-hole	Standard assembly
P/N 01-0790044-03	9004403	Red	Lower	5-hole	Standard assembly
P/N 01-0790044-04	9004404	White	Lower	5-hole	Standard assembly
P/N 01-0790044-09	9004409	Red	Upper	5-hole	Capable of synchronizing flash rate with other like unit
P/N 01-0790044-10	9004410	White	Upper	5-hole	Capable of synchronizing flash rate with other like unit
P/N 01-0790044-13	9004413	Red	Upper	5-hole	Slave unit
P/N 01-0790044-15	9004415	Red	Lower	5-hole	Slave unit
P/N 01-0790044-17	9004417	Red	Upper	8-hole	Standard assembly
P/N 01-0790044-18	9004418	White	Upper	8-hole	Standard assembly
P/N 01-0790044-19	9004419	Red	Lower	8-hole	Standard assembly
P/N 01-0790044-20	9004420	White	Lower	8-hole	Standard assembly
P/N 01-0790044-33	9004433	Red	Upper	5-hole	2.25 lbs. (rudder mount) Citations
P/N 01-0790044-34	9004434	White	Upper	5-hole	2.25 lbs. (rudder mount) Citations
P/N 01-0790044-35	9004435	Red	Upper	8-hole	2.50 lbs. (Westwind)
P/N 01-0790044-37	9004437	Red	Upper	5-hole	5-position input connector (Citation X)
P/N 01-0790044-39	9004439	Red	Lower	5-hole	5-position input connector (Citation X)
P/N 01-0790044-41	9004441	Red	Lower	9-hole	Special 9-hole mounting plate
P/N 01-0790044-44	9004444	White	Lower	5-hole	5-position input connector (Citation X)
P/N 01-0790044-53	9004453	White	Lower	8-hole	Masked lens, (factory installed on Beech Barons)
P/N 01-0790044-54	9004454	Red	Lower	5-hole	Lens has 2 drain holes & bottom mounted input connector (Hawker 800)
P/N 01-0790044-55	9004455	Red	Upper	5-hole	Single input connector (Hawker 800)
P/N 01-0790044-56	9004456	Red	Lower	5-hole	Lens has 2 drain holes & single input connector (Older Hawkers)
P/N 01-0790044-57	9004457	Red	Upper	5-hole	2.25 lbs., cable pigtail (Beech Barons)
P/N 01-0790044-58	9004458	White	Upper	5-hole	2.25 lbs., cable pigtail (Beech Barons)

90033 Series

FAA/TSO-C96a Approved

Self-contained, 150-watt, quartz halogen flashing anti-collision light which is factory installed on Beechcraft. It is also a direct replacement for oscillating beacons on most corporate aircraft.

2-Hole Mounting

Specifications

Weight	0.6 lbs. to 0.9 lbs.
Height	4.4"
Power Consumption	5.5 AMPS @ 28V

8-Hole Mounting

5-Hole Mounting

	Model	Lens Color	Mount	Base	Remarks
P/N 01-900331	900331	Red	Lower	2-hole	Standard unit, 18" cable, no connector
P/N 01-900332	900332	White	Lower	2-hole	Standard unit, 18" cable, no connector
P/N 01-900333	900333	Red	Lower	8-hole	18" cable, AMPS #207846-1, 2-position connector
P/N 01-900334	900334	White	Lower	8-hole	18" cable, AMPS #207846-1, 2-position connector
P/N 01-900335	900335	Red	Upper	5-hole	18" cable, AMPS #207846-1, 2-position connector
P/N 01-900336	900336	White	Upper	5-hole	18" cable, AMPS #207846-1, 2-position connector
P/N 01-900335-D	900335D	Red	Lower	5-hole	18" cable, AMPS #207846-1, 2-position connector
P/N 01-900336-D	900336D	White	Lower	5-hole	18" cable, AMPS #207846-1, 2-position connector
P/N 01-900337	900337	Red	Lower	Round	5.12 diameter mounting base, MS3102R10SL-3P connector
P/N 01-900338	900338	White	Lower	Round	5.12 diameter mounting base, MS3102R10SL-3P connector
P/N 01-900339	900339	Red	Lower	8-hole	18" cable, AMPS #208530-1, 8-position connector
P/N 01-9003310	9003310	White	Lower	8-hole	18" cable, AMPS #208530-1, 8-position connector
P/N 01-9003311	9003311	Red	Upper	5-hole	AMPS #1-480698-0, 2-position connector
P/N 01-9003312	9003312	White	Upper	5-hole	AMPS #1-480698-0, 2-position connector (Beech 1900)
P/N 01-9003313	9003313	Red	Upper	2-hole	No connector, 13" leads (Cessna CJ1, CJ2)
P/N 01-9003314	9003314	White	Upper	2-hole	No connector, 13" leads
P/N 01-9003317	9003317	Red	Upper	2-hole	AMPS #207846-1, 2-position connector with masked lens
P/N 01-9003318	9003318	White	Upper	2-hole	AMPS #207846-1, 2-position connector with masked lens
P/N 01-9003319	9003319	Red	Lower	2-hole	AMPS #207846-1, 2-position connector
P/N 01-9003323	9003323	Red	Lower	8-hole	AMPS #207567-1, 3-position connector
P/N 01-9003324	9003324	White	Lower	8-hole	AMPS #207567-1, 3-position connector (Beech 1900)
P/N 01-9003325	9003325	Red	Upper	5-hole	MS3102R10SL-3P connector on mounting bracket (Beech Jet))
P/N 01-9003326	9003326	White	Upper	5-hole	MS3102R10SL-3P connector on mounting bracket (Beech Jet))
P/N 01-9003329	9003329	Red	Upper	5-hole	Master unit, no connector
P/N 01-9003330	9003330	White	Upper	5-hole	Master unit, no connector (Fairchild)
P/N 01-9003332	9003332	White	Lower	2-hole	Slave unit, no connector (Fairchild)
P/N 01-9003333	9003333	Red	Upper	5-hole	18" cable, no connector
P/N 01-9003334	9003334	White	Upper	5-hole	18" cable, no connector
P/N 01-9003338	9003338	White	Upper	2-hole	Slave unit, masked (Beech Baron) used with 90044-53 master unit
P/N 01-9003344	9003344	White	Upper	2-hole	AMPS #207846-1, 2-position connector

W1285 Series

Wing-tip position light which uses a 26-watt incandescent lamp. It is a direct replacement for the brand "G" A1285 series. Specify 14 or 28V.

P/N 01-0770001-41—W1285PG1
P/N 01-0770001-51—W1285PR1
P/N 01-0770001-42—W1285PG2
P/N 01-0770001-52—W1285PR2

Specifications

Weight	0.2 lbs.
Height	1.25"
Length	4"
Power Consumption	2 AMPS @ 14V 1 AMPS @ 28V
Drawing Number	70001

Model	Description	Approvals
W1285PG1	14V, position green	FAA/TSO-C30b Type II
W1285PR1	14V, position red	FAA/TSO-C30b Type I
W1285PG2	28V, position green	FAA/TSO-C30b Type II
W1285PR2	28V, position red	FAA/TSO-C30b Type I

A555A Series

FAA/TSO-C30b Type III Approved

Tail mounted position light which uses a 25-watt halogen lamp. The suffix "V" or "H" in the part number designates the aircraft mounting screw locations in respect to the light shield. "V" designates vertical mounting, and "H" indicates horizontal mounting on the aircraft. Supplied with a 2-position "AMPS" connector. Specify 14 or 28V. Replaces the brand "G" A2064 series.

P/N 01-0770034-00—A555AV14
P/N 01-0770034-01—A555AV28
P/N 01-0770034-02—A555AH14
P/N 01-0770034-03—A555AH28

Specifications

Weight	0.1 lbs.
Exposed Height	1.4"
Mounting Diameter	1.06"
Power Consumption	2 AMPS @ 14V, 1 AMPS @ 28V
Drawing Number	70034

Model	Description
A555AV14	14V, vertical mounting
A555AV28	28V, vertical mounting
A555AH14	14V, horizontal mounting
A555AH28	28V, horizontal mounting

70805 Series

The model 70805 series LED tail position light, is a high quality, long lasting, modern alternative to incandescent and halogen tail position lights. It offers significant technological upgrades over previous products. Utilizing LED technology, the following advantages are offered. Long life—approximately 20,000 hours. Reduced power consumption—compared to alternative light sources. Shock and vibration resistant—no fragile filament to burn out. Light—produces bright white light. No EMI or RFI interference. 3-year warranty.

P/N 01-0770805-00—7080500

P/N 01-0770805-01—7080501

Specifications

Weight	0.3 lbs.
Exposed Height	1.64"
Length	2.60"
Width	1.74"
Power Consumption	0.3 AMPS @ 28V
Drawing Number	70805

Model	Description	Approvals
7080500	28V — no connectors	FAA/TSO-C30c Type III
7080501	28V — connectors, case ground used on Beechjet	FAA/PMA FAA/TSO-C30c Type III

70875 Series

The 70875 is designed as a high quality, long lasting, modern alternative to incandescent and halogen forward position lights. Also, the 70875 series offers significant technological upgrades over previous products. Utilizing LED (Light Emitting Diode) technology, Whelen is able to provide the following advantages compared to the existing incandescent and halogen light assemblies, to significantly reduce operating costs.

P/N 01-0770875-01—7087501

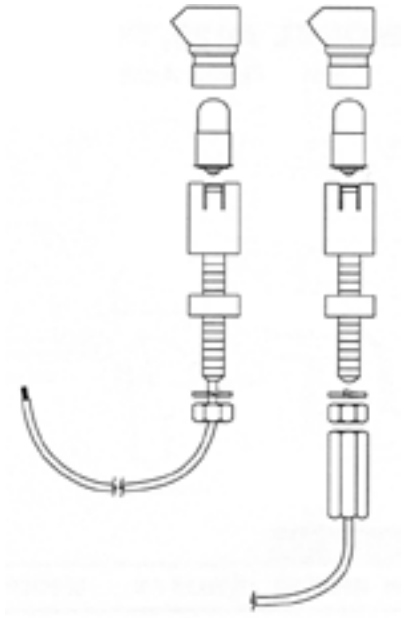
P/N 01-0770875-02—7087502

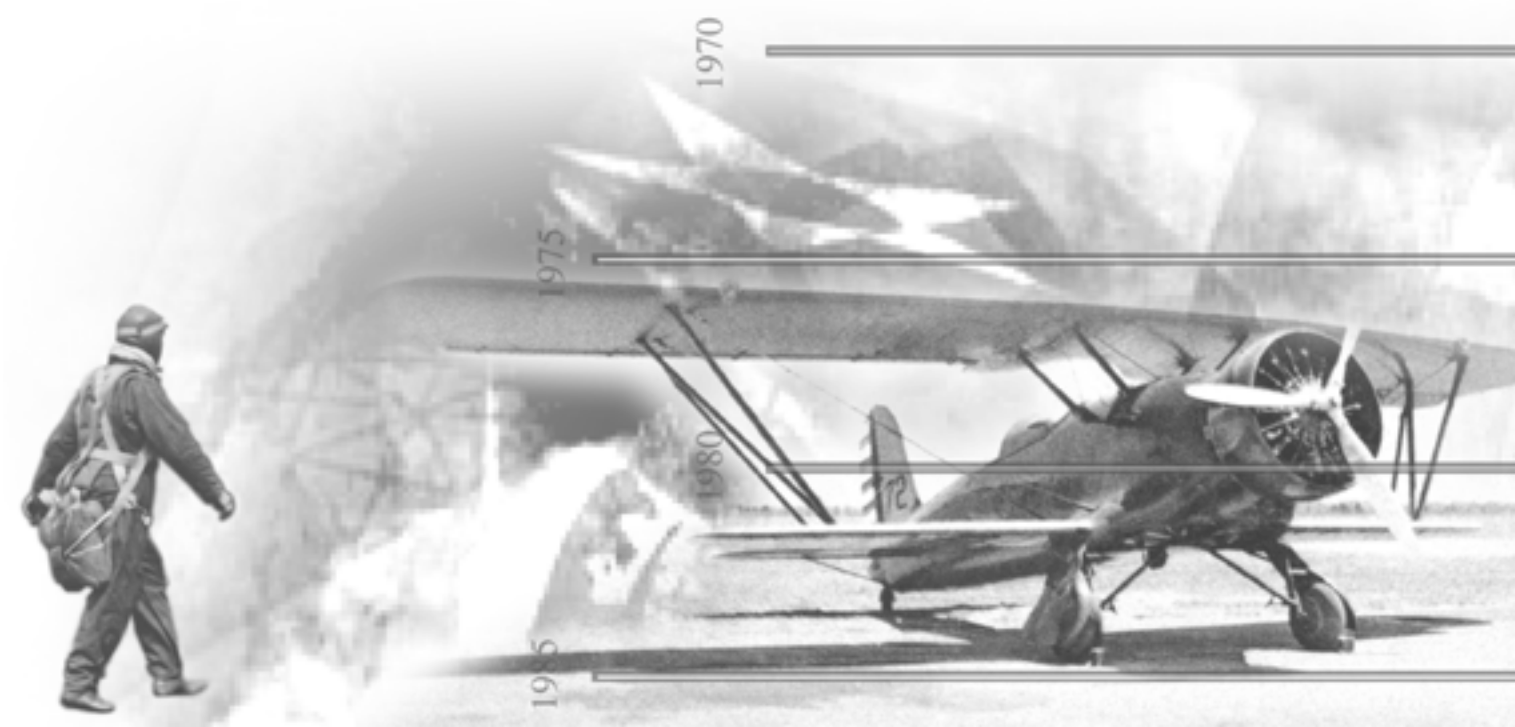
Specifications

Model	Description
7087501	28V red position light
7087502	28V green position light

Whelen Post Lights

When ordering specify:



Part Number Configuration Guide

Assy P/N	Post Color	Lens Color	Post Height	Voltage
A350 A350CN	BK = Black GR = Grey	IW = Instrument White CL = Clear RD = Red	SH = Short (1.875") LG = Long (2.375")	6 = (328 lamp) 14 = (330 lamp) 28 = (327 lamp)